

# INTERNATIONAL SEARCH REPORT

International Application No  
i /GB2004/003847

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 C07K11/02 C07K7/64 A61K38/15

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBASE, BIOSIS, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/033012 A (LOPEZ LAZARO LUIS ; TRIGO JOSE MANUEL (ES); JIMENO JOSE (ES); PAZ-ARES) 24 April 2003 (2003-04-24) cited in the application page 3 – page 4 page 7 – page 17 page 19 – page 20 -----	1-14
X	WO 01/58934 A (JIMENEZ JOSE CARLOS ; RODRIGUES IGNACIO (ES); GIRALT ERNEST (ES); LOPE) 16 August 2001 (2001-08-16) cited in the application page 9 – page 12 ----- -/-	1-5, 7, 8, 10-12

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

26 January 2005

Date of mailing of the international search report

14/02/2005

Name and mailing address of the ISA

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International Application No  
/GB2004/003847

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HAMANN M T ET AL: "Kahalalides: bioactive peptides from a marine mollusk <i>Elysia rufescens</i> and its algal diet <i>Bryopsis</i> sp" JOURNAL OF ORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY, EASTON, US, vol. 61, no. 19, 1996, pages 6594-6600, XP002125310 ISSN: 0022-3263 cited in the application page 6595	1-8, 10-12
P, X	WO 2004/035613 A (AVILES MARIN PABLO MANUEL ; CUEVAS MARCHANTE MARIA DEL CAR (ES); PHARM) 29 April 2004 (2004-04-29) page 4	1-3, 11-14
A	LÓPEZ-MACIÀ A ET AL: "Synthesis and structure determination of kahalalide F (1,2)." JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. 21 NOV 2001, vol. 123, no. 46, 21 November 2001 (2001-11-21), pages 11398-11401, XP002313084 ISSN: 0002-7863 page 11399	

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International application No.  
PCT/GB2004/003847

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of Invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14 (all partially)

A compound based on the structure of kahalalide F wherein an amino acid in the exocyclic part is different from that in kahalalide F.

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2. claims: 1-14 (all partially)

A compound based on the structure of kahalalide F wherein an amino acid in the cyclic part is different from that in kahalalide F.

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3. claims: 1-14 (all partially)

A compound based on the structure of kahalalide F wherein the side chain is changed, for example, the methylhexanoyl group has been substituted by another carboxyl group or has been removed.

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**INTERNATIONAL SEARCH REPORT**

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Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 03033012	A 24-04-2003	AU BR CA CA EP EP WO JP NO PL SK US CZ WO	1074902 A 0114912 A 2425627 A1 2462639 A1 1330258 A2 1435990 A1 03033012 A1 2004512370 T 20031860 A 360848 A1 5022003 A3 2004067895 A1 20031211 A3 0236145 A2	15-05-2002 14-10-2003 10-05-2002 24-04-2003 30-07-2003 14-07-2004 24-04-2003 22-04-2004 30-06-2003 20-09-2004 02-12-2003 08-04-2004 17-09-2003 10-05-2002
WO 0158934	A 16-08-2001	AU BG BR CA CN CZ EP WO HU JP NO PL SK US	3208601 A 107020 A 0108213 A 2399187 A1 1422278 T 20022740 A3 1254162 A2 0158934 A2 0301817 A2 2003522198 T 20023749 A 356800 A1 11242002 A3 2004214755 A1	20-08-2001 30-05-2003 05-03-2003 16-08-2001 04-06-2003 15-01-2003 06-11-2002 16-08-2001 29-09-2003 22-07-2003 07-10-2002 12-07-2004 03-06-2003 28-10-2004
WO 2004035613	A 29-04-2004	CA EP WO WO	2462639 A1 1435990 A1 2004035613 A2 2004075910 A1	24-04-2003 14-07-2004 29-04-2004 10-09-2004